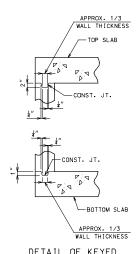


① USE THESE BARS FOR DESIGN FILLS OF MORE THAN 2'-0".
② USE THESE BARS FOR DESIGN FILLS OF 2'-0" OR LESS.

(\*\*\*\*\*\*\*) USE TRANSVERSE JOINT WHEN BARREL IS OVER 80 FEET LONG BETWEEN HEADWALLS MEASURED ALONG & OF BOX.

USE ADDITIONAL TRANSVERSE JOINTS TO PROVIDE 50 FEET MAXIMUM SPACING BETWEEN JOINTS.



DETAIL OF KEYED CONST. JT.

## GENERAL NOTES:

DESIGN UNIT STRESSES: CLASS B-1 CONCRETE, f'c = 4.000 psi REINFORCING STEEL (GRADE 60), fy = 60.000 psi

ALL DIMENSIONS SHOWN ARE IN INCH UNLESS OTHERWISE NOTED.

FOR DIMENSIONS AND SIZE AND SPACING OF REINFORCING STEEL. SEE STANDARD SHEET 703.45B.

LAP ALL LONGITUDINAL BARS A MINIMUM OF 23" AT SPLICES.

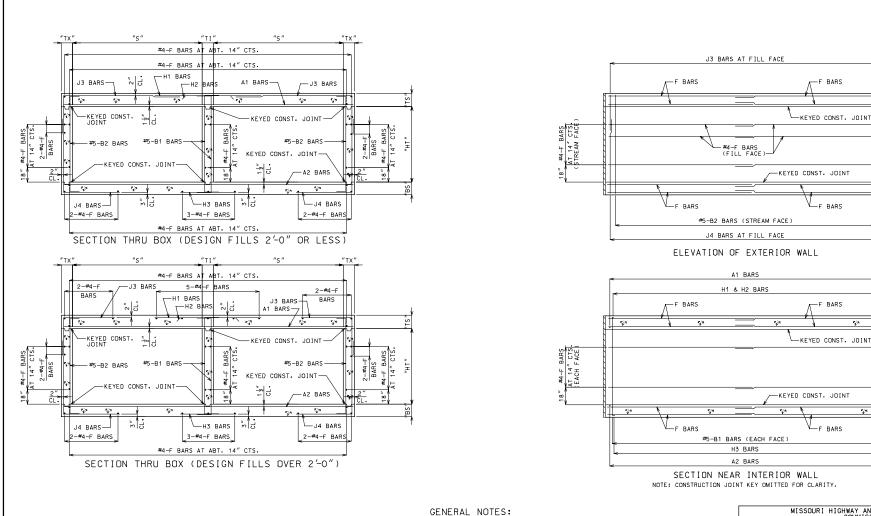
MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1-1/2  $^{\prime\prime}$  UNLESS OTHERWISE SHOWN.

JOINT FILLER SHALL BE SECURELY STITCHED TO ONE FACE OF THE CONCRETE WITH NO. 10 GAGE COPPER WIRE OR NO. 12 GAGE SOFT DRAWN GALVANIZED STEEL WIRE.

A FILTER CLOTH 3 FEET IN WIDTH AND DOUBLE THICKNESS SHALL BE APPLIED TO ALL TRANSVERSE JOINTS IN THE TOP SLAB AND SIDUWALLS. THE MATERIAL SHALL BE CENTERED ON THE JOINT AND THE EDGES SEALED WITH A MASTIC OR WITH TWO SIDED TAPE. THE FILTER CLOTH SHALL BE A GEOTEXTILE MEETING THE APPROVAL OF THE FROINEER AND HAVING A GRAB TENSILE STRENGTH OF 180 LBS. (ASTM D-4632) AND AN APPARENT OPENING SIZE OF 50 TO 100 (ASTM D-4751). NO DIRECT PAYWENT WILL BE MADE FOR FURNISHING AND INSTALLING FILTER CLOTH.

FOR MORE DETAILS AND SECTION THROUGH BOX, SEE 703.42E SHEET 2 OF 2.

ı	MICCOURT HIGHWAY AND TOANGOODTATION				
	MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION				
		CONCRETE DOUBLE BOX STRUCTURE (CUT SECTIONS)			
	DATE:	EFFECTIVE: 01-01-2003	703.42E	1/2	



ALL DIMENSIONS SHOWN ARE IN INCH UNLESS OTHERWISE NOTED. FOR DIMENSIONS AND SIZE AND SPACING OF REINFORCING STEEL, SEE STANDARD SHEET 703.45B.

MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE  $1-1/2\,^{\prime\prime}$  UNLESS OTHERWISE SHOWN.

MISSOURI HIGHWAY AND TRANSPORTATION
COMMISSION

CONCRETE
DOUBLE BOX STRUCTURE

(CUT SECTIONS)

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703.42E

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